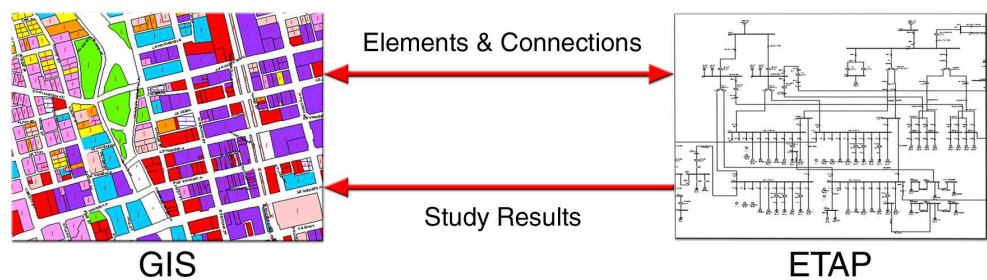


ETAP[®] GIS Map

Display Overlay Manipulate

ETAP GIS Map automatically generates electrical one-line diagrams with the corresponding geographical maps of power generation, transmission, and distribution systems. Electrical system data is synchronized from GIS into ETAP thereby maintaining the relationship between them. You can open unlimited views of GIS maps within ETAP, allowing you to manipulate GIS maps while working in ETAP. The analysis results are displayed on one-line diagrams and geographical maps providing a seamless view of the power system within ETAP.



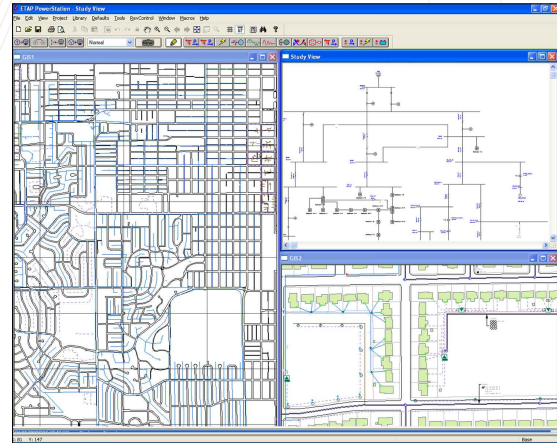
ETAP GIS Map

Key Features

- View GIS Maps in ETAP
- Display Analysis Results on GIS Map
- Synchronize GIS Data to ETAP Projects
- GUI Database Mapping
- View Modifications & Accept/Reject Actions
- Use GIS Map Tools
- Map Attributes of GIS to ETAP Elements
- Consistency Checks for Data Synchronization

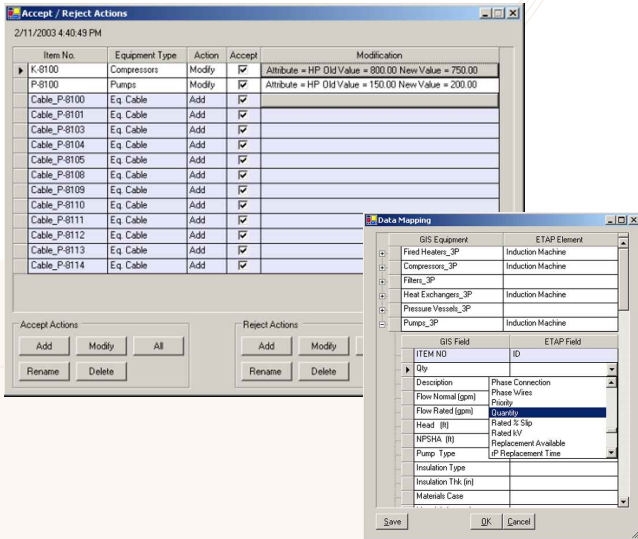
Features

- Map GIS equipment attributes to ETAP element attributes
- Synchronize GIS data to ETAP projects
- Perform consistency checks during data exchange
- Substitute missing information with ETAP defaults & library data



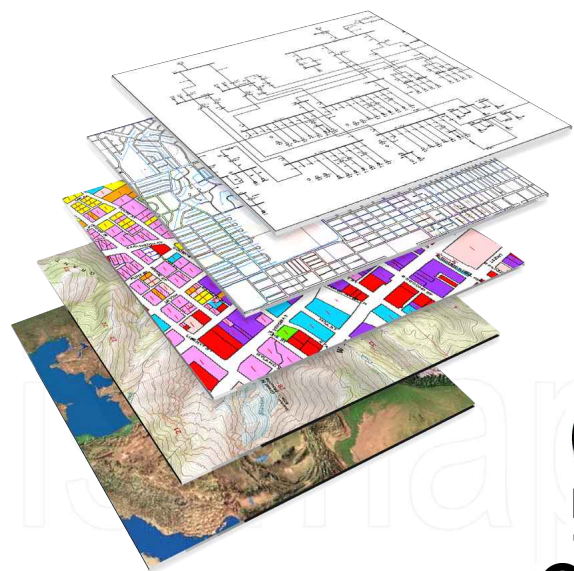
Capabilities

- Database mapping via a graphic user interface
- Display unlimited GIS presentations
- Perform add, modify, or delete actions for data synchronization
- View modifications & accept/reject actions via graphical user interface
- Use map tools – zoom in, zoom out, full extent, pan, etc.
- Full control of analysis results displayed on the GIS map



Benefits

- Reduce data-entry costs by using GIS-updated engineering data for system studies
- Avoid duplicate/incorrect data entry
- Direct communication with ESRI Geodatabase® & map documents
- Enter data in GIS and/or ETAP
- Flexibility to use all ETAP modules for analysis
- Multi-level graphical display of GIS & ETAP data



Complete Power System Solution

- Unlimited Buses* & Elements
- No Voltage Limitations
- Looped & Radial Systems
- Integrated 1-Phase, 3-Phase, & DC Systems
- Multiple Generators & Grid Connections
- Multiple Isolated Sub-Systems
- Graphical Display of Results on One-Line Diagrams
- Customizable Display of Ratings & Results
- Graphical Display of Equipment Impedance & Grounding
- Automatic Error Checking
- Dynamically Adjust Display of Results

*Maximum number of energized buses during calculations is license dependent.

10 CFR 50 Appendix B • 10 CFR 21 • ANSI/ASME N45.2-1977 • ASME NQA-1
ISO 9001 A3147 • ANSI/IEEE Std 730.1-1989 • CAN/CSA-Q396.1.2-89



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